

Listing of Claims

1. (Previously Presented) A method comprising:
in response to a request to perform a plurality of operations on a plurality of logical volumes,
identifying a first storage region of a plurality of storage regions available for allocation for a first operation of the plurality of operations on a first logical volume of the plurality of logical volumes,
determining whether each of the remaining operations of the plurality of operations can be performed on the remaining volumes of the plurality of logical volumes using one or more subsets of the plurality of storage regions, wherein
the one or more subsets exclude the identified first storage region, and
allocating the first storage region for the first operation, after performing said identifying and said determining, if said determining determines that each of the remaining operations can be performed.

2. (Previously Presented) The method of claim 1 further comprising:
if said determining determines that each of the remaining operations cannot be performed
using the one or more subsets of the plurality of storage regions,
identifying a third storage region of the plurality of storage regions available for
allocation for the first operation, and
determining whether each of the remaining operations of the plurality of
operations can be performed using a one or more subsets of the plurality
of storage regions, wherein
the one or more subsets exclude the third storage region and include the
first storage region.
3. Canceled.
4. (Previously Presented) The method of claim 1 further comprising:
identifying a respective set of rules to configure each respective logical volume of the
plurality of logical volumes prior to identifying the first storage region, wherein
the respective set of rules for each respective logical volume is used to identify a
respective storage region to allocate for the respective logical volume.
5. (Previously Presented) The method of claim 4 wherein the determining whether
each of the remaining operations can be performed comprises:
examining a second respective set of rules for a second logical volume of the plurality of
logical volumes.

6. (Previously Presented) The method of claim 1 further comprising:
determining a respective storage region to allocate for each respective operation of the set of operations by
determining whether a remaining operation of the set of operations can be
performed using an unallocated subset of the plurality of storage regions,
wherein
the remaining operation excludes the respective operation,
the unallocated subset excludes the respective storage region, and
the unallocated subset excludes an allocated subset of the plurality of
storage regions, wherein
each storage region in the allocated subset is allocated to one of the
set of operations.
7. (Previously Presented) The method of claim 1 wherein
each operation of the set of operations is one type of operation.
8. (Previously Presented) The method of claim 1 wherein
a first operation of the set of operations is a first type of operation,
a second operation of the set of operations is a second type of operation, and
the first type and the second type are different.
9. (Previously Presented) The method of claim 1 wherein
the first storage region conforms to a first intent of the first logical volume.
10. (Original) The method of claim 9 wherein
the first intent comprises a first rule used to configure the first storage region to provide
the first logical volume.
11. (Previously Presented) The method of claim 1 further comprising:
performing the first operation on the first logical volume using the first storage region.

12. (Previously Presented) The method of claim 1 wherein one operation of the set of operations is one of the following:

- creating the first logical volume;
- growing a second logical volume of the plurality of logical volumes; and
- adding a mirror to a third logical volume of the plurality of logical volumes.

13. (Previously Presented) A computer-readable storage medium for storing computer executable instructions, wherein a method is performed in response to executing the instructions, the method comprising:

- in response to a request to perform a plurality of operations on a plurality of logical volumes,
- identifying a first storage region of a plurality of storage regions available for allocation for a first operation of the plurality of operations on a first logical volume of the plurality of logical volumes,
- determining whether each of the remaining operations of the plurality of operations can be performed on the remaining volumes of the plurality of logical volumes using one or more subsets of the plurality of storage regions, wherein
 - the one or more subsets exclude the identified first storage region, and
- allocating the first storage region for the first operation, after performing said identifying and said determining, if said determining determines that each of the remaining operations can be performed.

14. (Previously Presented) The computer-readable storage medium of claim 13 wherein the method further comprises:

if said determining determines that each of the remaining operations cannot be performed using the one or more subsets of the plurality of storage regions,
identifying a third storage region of the plurality of storage regions available for allocation for the first operation, and
determining whether each of the remaining operations of the plurality of operations can be performed using a one or more subsets of the plurality of storage regions, wherein
the one or more subsets exclude the third storage region and include the first storage region.

15. Canceled.

16. (Previously Presented) The computer-readable storage medium of claim 13 wherein the method further comprises:

identifying a respective set of rules to configure each respective logical volume of the plurality of logical volumes prior to identifying the first storage region, wherein the respective set of rules for each respective logical volume is used to identify a respective storage region to allocate for the respective logical volume.

17. (Previously Presented) The computer-readable storage medium of claim 16 wherein the determining whether each of the remaining operations can be performed comprises:
examining a second respective set of rules for a second logical volume of the plurality of logical volumes.

18. (Previously Presented) The computer-readable storage medium of claim 13 wherein the method further comprises:
- determining a respective storage region to allocate for each respective operation of the set of operations by
 - determining whether a remaining operation of the set of operations can be performed using an unallocated subset of the plurality of storage regions, wherein
 - the remaining operation excludes the respective operation,
 - the unallocated subset excludes the respective storage region, and
 - the unallocated subset excludes an allocated subset of the plurality of storage regions, wherein
 - each storage region in the allocated subset is allocated to one of the set of operations.
19. (Previously Presented) The computer readable storage medium of claim 13 wherein
- each operation of the set of operations is one type of operation.
20. (Previously Presented) The computer-readable storage medium of claim 13 wherein
- a first operation of the set of operations is a first type of operation,
 - a second operation of the set of operations is a second type of operation, and
 - the first type and the second type are different.
21. (Previously Presented) The computer-readable storage medium of claim 13 wherein
- the first storage region conforms to a first intent of the first logical volume.

22. (Previously Presented) The computer-readable storage medium of claim 21 wherein
- the first intent comprises a first rule used to configure the first storage region to provide the first logical volume.
23. (Previously Presented) The computer-readable storage medium of claim 13 wherein the method further comprises:
- performing the first operation on the first logical volume using the first storage region.
24. (Previously Presented) The computer-readable storage medium of claim 13 wherein one operation of the set of operations is one of the following:
- creating the first logical volume;
- growing a second logical volume of the plurality of logical volumes; and
- adding a mirror to a third logical volume of the plurality of logical volumes.
- 25-26. Canceled